



The GLOBE Program[®]

GLOBE Evaluation

- fi An evaluation process, using quantitative and qualitative techniques, has been designed. Implementation began in the Spring of 1996.

- fi The evaluation uses records of data submissions, and network interactions. Teachers, students, and scientists were surveyed and observations and interviews were conducted at selected sites.





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GLOBE Evaluation

- fi Formative evaluation, to understand how to fine tune and enhance the program, and summative evaluation, to understand the impact, provide valuable information on the processes involved in GLOBE and provide the GLOBE staff with information needed in the planning and design of training activities, materials development and systems design.





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GLOBE Evaluation Teacher Survey

- fi Random sample of 400 from GLOBE-trained teachers.
- fi Sample of 250 U.S. teachers whose students reported data on a regular basis January-March 1996.
- fi Sample of 28 international teachers whose schools met the reporting criterion.
- fi World Wide Web and print survey options.
- fi Survey period from April 8-May 31, 1996.

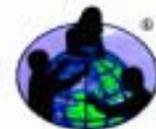




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GLOBE Evaluation Teacher Response Rates

| Sample | Number Responses | Response Rate | % WWW Response |
|----------------------------|-------------------------|----------------------|-----------------------|
| Trained Teachers (n = 400) | 308 | 77 | 35 |
| Reporting Teachers (n=250) | 227 | 91 | 58 |

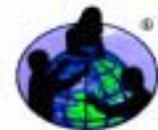




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GLOBE Evaluation Student Surveys

| Sample | Number Responses | Response Rate | % WWW Response |
|----------------|------------------|---------------|----------------|
| 4th Grade | 711 | 12 | 88 |
| 7th/10th Grade | 357 | 14 | 86 |



Teacher Perceptions of Student Level of Interest in GLOBE by Percent

| Aspect of GLOBE | Very Interested | Somewhat Interested | Not at All Interested |
|---|------------------------|----------------------------|------------------------------|
| GLOBE activities in general | 79 | 21 | 0 |
| Using computers to work with GLOBE data | 88 | 12 | 0 |
| Taking GLOBE measurements | 82 | 18 | 0 |
| Working with other students | 57 | 38 | 5 |
| Communicating with classrooms in other schools | 51 | 38 | 12 |
| Finding out about GLOBE scientists and their work | 26 | 57 | 17 |

Teacher Perceptions of Student Level of Interest in GLOBE by Percent

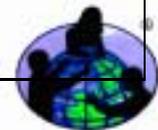
| Skill Area | Very Much | Somewhat | Not Very Much | Not at All |
|---------------------------------|------------------|-----------------|----------------------|-------------------|
| Observational Skills | 72 | 28 | 1 | 0 |
| Measurement Skills | 70 | 29 | 1 | 0 |
| Technology Skills | 68 | 28 | 4 | 1 |
| Ability to understand data | 51 | 41 | 7 | 1 |
| Ability to work in small groups | 50 | 42 | 7 | 1 |
| Critical thinking skills | 38 | 49 | 10 | 3 |
| Map skills | 35 | 38 | 18 | 9 |
| English language skills | 15 | 43 | 27 | 15 |



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Activities Students “Like a Lot”

| Activity | % of 4th Graders | % of 7th/10th Graders |
|--|------------------|-----------------------|
| Putting data on the computer | 78 | 50 |
| Taking measurements | 70 | 48 |
| Looking at satellite images | 56 | 36 |
| Talking about Earth/ weather/water | 54 | 29 |
| Looking at data collected by students in other places | 37 | 20 |





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Settings in Which GLOBE is Being Implemented

| Setting | % Reporting |
|--------------------------|-------------|
| Regular class | 81 |
| Lunch/after school group | 32 |
| Pull-out program | 25 |
| Other | 20 |

